TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-01-23-04** **Date: 24-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-18
Sample ID No	:	2018-01-23-04/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	23-01-18
Oven Dry Weight	:	10120 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100.0	100
53	814	814	8.04	92.0	80-100
26.5	1734	2548	25.18	74.8	55-90
9.5	1311	3859	38.13	61.9	35-65
4.75	1834	5693	56.25	43.7	25-55
2.36	1544	7237	71.51	28.5	20-40
0.425	1595	8832	87.27	12.7	10-25
0.075	998	9830	97.13	2.9	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-01-29-05**

Date: 01-02-18

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-18

Sample ID No : 2018-01-29-05/01

Sample Type : ACC 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 30-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.58	–
2	Finess by Air permeablity method (m^2/kg, Min)	283.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-29-05** **Date: 27-02-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-05/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-01-18

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-29-05** **Date: 01-02-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	285	285	1.9	98.1	90-100
3	20 mm	7418	7703	51.4	48.6	30-70
4	10 mm	4071	11774	78.5	21.5	10-35
5	4.75 mm	2778	14552	97.0	3.0	0-5
6	Pan	448	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-29-05** **Date: 01-02-18**

Sample ID No : 2018-01-29-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.7**	
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.47**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.15**	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-29-05** **Date: 01-02-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-18
Sample ID No	:	2018-01-29-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	29-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	201	201	4.0	96.0	90-100
3	10 mm	2554	2755	55.1	44.9	25-55
4	4.75 mm	1985	4740	94.8	5.2	0-10
5	Pan	260	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-29-05** **Date: 01-02-18**

Sample ID No : 2018-01-29-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**8.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.2**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.21**	_
7	Aggregate crushing Value(%)	**23.7**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-29-05** **Date: 01-02-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-18

Sample ID No : 2018-01-29-05/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 29-01-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	17	17	1.7	98.3	90-100	90-100	90-100	95-100
3	2.36 mm	174	191	19.1	80.9	60-95	75-100	85-100	95-100
4	1.18 mm	201	392	39.2	60.8	30-70	55-90	75-100	90-100
5	600 micron	227	619	61.9	38.1	15-34	35-59	60-79	80-100
6	300 micron	184	803	80.3	19.7	5-20	8-30	12-40	15-50
7	150 micron	152	955	95.5	4.5	0-10	0-10	0-10	0-15
8	Pan	45	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-29-05** **Date: 01-02-18**

Sample ID No : 2018-01-29-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.05	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	4.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 10/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/02/2018	10/02/2018	149.85 X 150.22 X 150.35	22510	8.198	391.7	17.4	17.5
2	Cement Concrete Pavement	M20	03/02/2018	10/02/2018	150.44 X 149.87 X 150.33	22546	8.152	385.5	17.1	
3	Cement Concrete Pavement	M20	03/02/2018	10/02/2018	150.21 X 150.46 X 150.22	22601	8.173	404.6	17.9	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 03/03/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/02/2018	03/03/2018	151.22 X 150.69 X 150.31	22787	8.149	503.6	22.1	22.1
2	Cement Concrete Pavement	M20	03/02/2018	03/03/2018	150.74 X 150.43 X 150.71	22676	8.144	485.3	21.4	
3	Cement Concrete Pavement	M20	03/02/2018	03/03/2018	150.68 X 150.44 X 150.39	22668	8.167	519.1	22.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 10/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/03

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/02/2018	10/02/2018	150.47 X 150.11 X 150.09	22587	8.147	390.8	17.3	17.2
2	Cement Concrete Pavement	M20	03/02/2018	10/02/2018	150.43 X 150.22 X 150.69	22598	8.163	379.6	16.8	
3	Cement Concrete Pavement	M20	03/02/2018	10/02/2018	150.03 X 150.11 X 150.26	22521	8.195	394.1	17.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 03/03/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/04

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	03/02/2018	03/03/2018	150.05 X 150.55 X 150.96	22590	8.125	528.6	23.4	23.0
2	Cement Concrete Pavement	M20	03/02/2018	03/03/2018	150.48 X 150.49 X 150.44	22646	8.147	523.1	23.1	
3	Cement Concrete Pavement	M20	03/02/2018	03/03/2018	150.32 X 150.49 X 150.44	22622	8.165	511.2	22.6	

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 11/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/05

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	04/02/2018	11/02/2018	149.61 X 150.74 X 150.22	22552	8.155	363.1	16.1	16.5
2	Cement Concrete Pavement	M20	04/02/2018	11/02/2018	150.69 X 150.23 X 150.49	22638	8.162	373.5	16.5	
3	Cement Concrete Pavement	M20	04/02/2018	11/02/2018	150.85 X 150.49 X 149.86	22701	8.138	381.4	16.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-02-06-03** **Date: 04/03/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-03/06
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	04/02/2018	04/03/2018	149.64 X 150.22 X 151.47	22479	8.261	532.8	23.7	23.6
2	Cement Concrete Pavement	M20	04/02/2018	04/03/2018	150.70 X 150.44 X 150.47	22671	8.014	535.0	23.6	
3	Cement Concrete Pavement	M20	04/02/2018	04/03/2018	150.66 X 149.82 X 150.11	22572	8.144	530.4	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 11/02/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/07

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	04/02/2018	11/02/2018	150.44 X 150.38 X 150.22	22623	8.162	386.9	17.1	16.9
2	Cement Concrete Pavement	M20	04/02/2018	11/02/2018	150.97 X 150.47 X 150.33	22716	8.147	368.0	16.2	
3	Cement Concrete Pavement	M20	04/02/2018	11/02/2018	150.49 X 150.44 X 149.87	22640	8.199	393.9	17.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-06-03** **Date: 04/03/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Kateramma Temple Surrounding area Vemanna Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-18

Sample ID No : 2018-02-06-03/08

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	04/02/2018	04/03/2018	151.03 X 150.49 X 150.64	22729	8.159	525.0	23.1	22.7
2	Cement Concrete Pavement	M20	04/02/2018	04/03/2018	150.22 X 150.67 X 150.85	22634	8.145	513.8	22.7	
3	Cement Concrete Pavement	M20	04/02/2018	04/03/2018	151.11 X 150.39 X 150.26	22725	8.167	509.0	22.4	

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